

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State  
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: FAIL-SAFE

Report Number: P733928

Luminaire Tested: **24FCZ2-30-B2750-W2D-CP250-3500K**

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P733928  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P272053)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 1/5/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: FAIL-SAFE  
Catalog Number: 24FCZ2-30-B2750-W2D-CP250-3500K  
Description: 2X4 3000 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 3500K CCT  
AND RIBBED LENS, WITH, CP250 BOTTOM LENS  
  
Light Source: -  
Ballast/Driver: -

**Summary**

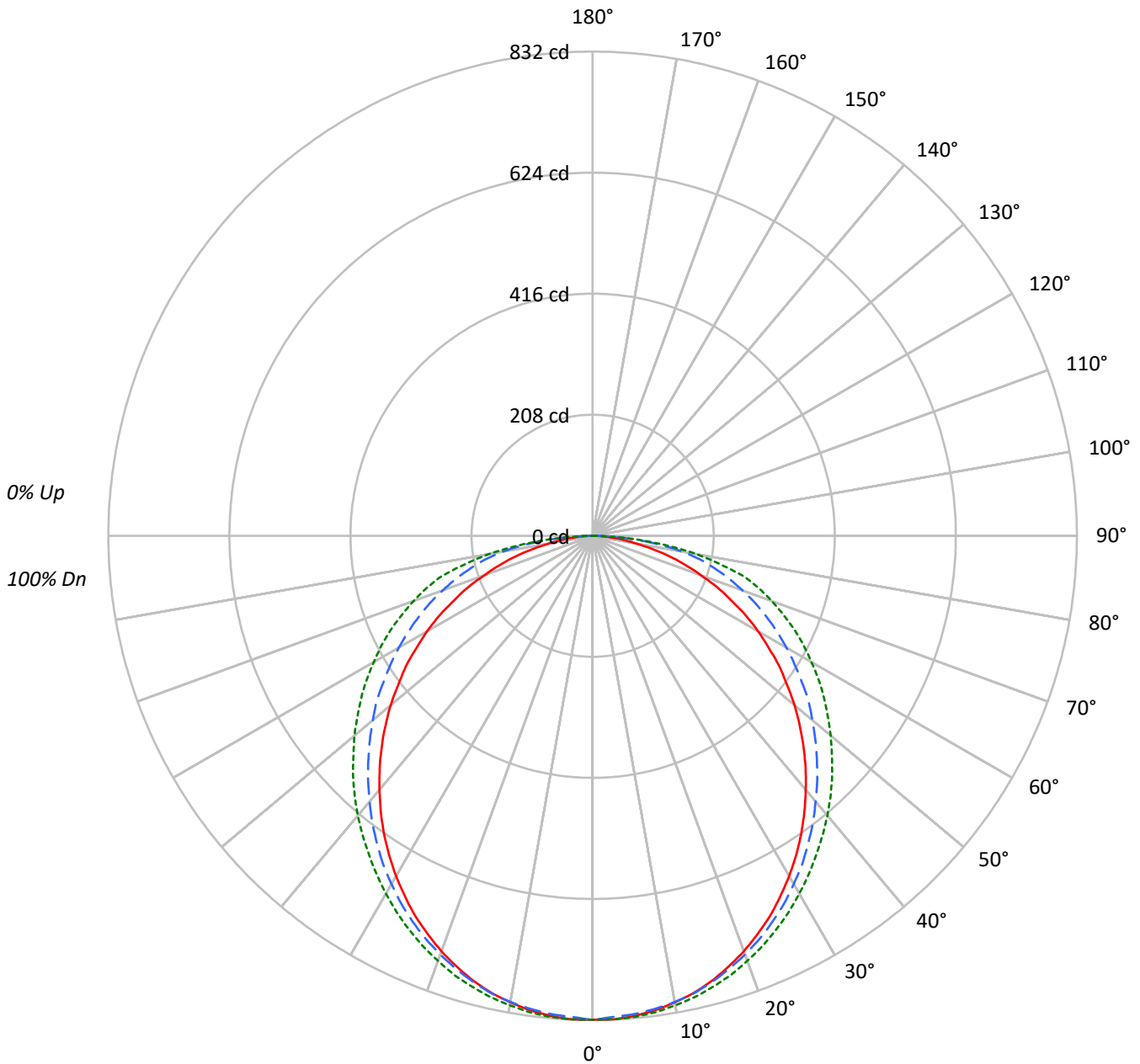
Lumens per Lamp: N/A  
Luminaire Lumens: 2477.0 lumens  
Efficiency: N/A  
Efficacy: 107.7 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.27 / 1.37  
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')  
CIE Type: Direct

Input Watts (W): 23  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT

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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20					20					20					20					20					
RC	80					70					50					30					10					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0					
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100								
1	108	103	98	94	105	100	96	92	96	93	89	92	89	87	89	86	84	82								
2	98	89	82	76	95	87	80	75	83	78	73	80	75	71	77	73	70	67								
3	89	78	69	62	86	76	68	62	73	66	61	70	64	60	68	63	58	56								
4	81	69	59	52	79	67	59	52	65	57	51	62	56	51	60	55	50	48								
5	74	61	52	45	72	60	51	45	58	50	44	56	49	44	54	48	43	41								
6	69	55	46	39	67	54	45	39	52	44	39	50	44	38	49	43	38	36								
7	64	50	41	35	62	49	40	34	47	40	34	46	39	34	45	38	34	32								
8	59	45	37	31	58	45	36	31	43	36	30	42	35	30	41	35	30	28								
9	55	42	33	28	54	41	33	28	40	33	27	39	32	27	38	32	27	25								
10	52	38	30	25	51	38	30	25	37	30	25	36	29	25	35	29	25	23								

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	1174	1174	1174
5°	1173	1169	1176
10°	1167	1166	1174
15°	1157	1160	1172
20°	1141	1150	1167
25°	1123	1139	1162
30°	1101	1126	1157
35°	1077	1112	1154
40°	1049	1098	1156
45°	1023	1087	1162
50°	995	1082	1173
55°	964	1080	1194
60°	926	1085	1225
65°	878	1101	1278
70°	815	1129	1351
75°	744	1185	1465
80°	611	1276	1465
85°	468	1177	1258



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	78.7	3.2
10°-20°	224.6	9.1
20°-30°	337.9	13.6
30°-40°	404.9	16.3
40°-50°	422.0	17.0
50°-60°	392.6	15.9
60°-70°	323.4	13.1
70°-80°	220.2	8.9
80°-90°	72.7	2.9
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	641.1	25.9
0°-40°	1046.1	42.2
0°-60°	1860.7	75.1
0°-90°	2477.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2477.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	832	832	832	832	832	
5°	828	828	825	829	830	79
15°	792	793	794	801	802	223
25°	721	724	732	744	746	332
35°	625	632	646	663	670	391
45°	512	523	545	572	582	395
55°	392	405	439	474	485	349
65°	263	285	330	369	383	261
75°	136	167	217	256	269	144
85°	29	56	73	78	78	36
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	831.7	831.7	831.7	831.7	831.7
2.5°	831.7	831.7	827.5	831.7	831.7
5°	828.3	828.3	825.0	829.2	830.0
7.5°	822.5	823.4	820.1	825.0	825.9
10°	814.2	815.1	813.4	818.4	819.2
12.5°	804.4	805.2	805.2	811.0	811.9
15°	791.9	792.8	793.6	801.1	801.9
17.5°	776.3	778.8	780.4	789.5	791.1
20°	759.7	762.2	765.5	775.4	777.1
22.5°	740.7	744.0	749.8	760.5	763.0
25°	720.9	724.2	731.6	744.0	746.5
27.5°	698.6	703.5	712.6	725.9	729.2
30°	675.4	680.3	691.1	705.1	710.1
32.5°	650.6	657.2	669.6	685.3	690.3
35°	624.9	632.4	645.7	663.0	669.6
37.5°	597.7	606.0	621.6	640.7	648.9
40°	569.6	579.5	596.0	618.4	627.4
42.5°	541.4	550.6	571.2	595.2	605.1
45°	512.5	523.3	544.8	572.0	582.0
47.5°	482.7	493.5	519.1	548.1	557.2
50°	453.1	463.8	492.7	523.3	534.1
52.5°	420.8	434.8	467.9	498.5	509.3
55°	391.9	405.0	439.0	473.7	485.2
57.5°	358.8	374.4	411.7	448.1	460.4
60°	328.2	344.7	384.4	421.6	434.0
62.5°	296.8	315.0	357.1	395.2	409.2
65°	262.8	285.2	329.8	368.7	382.7
67.5°	232.3	255.5	302.6	342.3	354.6
70°	197.6	225.7	273.6	313.4	327.4
72.5°	167.8	195.9	246.3	285.2	299.2
75°	136.4	167.0	217.4	256.3	268.6
77.5°	105.0	138.9	189.3	219.1	223.2
80°	75.2	110.8	157.0	174.5	180.2
82.5°	52.9	85.2	115.8	127.3	130.6
85°	28.9	56.2	72.7	77.7	77.7
87.5°	12.4	24.0	28.9	29.8	30.6
90°	0.0	0.0	0.0	0.0	0.0



Report Generated By 670246072 / DESKTOP-50001EG







— 0°-180°    - - 45°-225°    - - - - 90°-270°







(END OF REPORT)